REACH HD Decoder

DEC1000

User Manual

V1.5

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Note:

This user manual is compiled to ensure easy installation and configuration of the product. Please read carefully this manual before using the product, so that you can make best use of all its functions.

This manual is subject to update from time to time without prior notice. If you come across any problem that cannot be solved according to the manual, please contact our company for solutions. Thank you.

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1 Overview

1.1 Introduction

DEC 1000 decoder is the special hardware equipment developed by Shenzhen Reach Software Technology Co., Ltd for multimedia signal decoding and output, as well as use together with Reach's various series of Multimedia Recording & Streaming Server. Adopting TI new DSP chip of high performance and special hardware platform, REACH decoder supports synchronized decode and display maximum 2 stream 720P video and 1 stream VGA signal, as well as the remote controller operation. It is more flexible and convenient, compared with the PC receiving way. The launch of REACH decoder adds the a new way of media receiving for the multimedia recording & streaming system, further improving Reach's total recording & streaming solution, thus satisfies the user's need of playing back media files in different environments. It can be widely used in various applications, such as conference room, conference hall, demonstration hall and leader's office, etc..

1.2 Feature and Specification Description

1.2.1 Hardware parameters

Dimensions: L x W x H = 330mm x 230mm x 45mm

Weight: 2kg

1.2.2 Environmental parameters

Storage temperature: -40 to 80℃

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Humidity: 5% to 95%

Working temperature: 0 to 50℃

1.2.3 Electrical specifications

Operating voltage: DC12V/3A

Power consumption: 10W

1.2.4 Network interface

LAN: Local area network interface.

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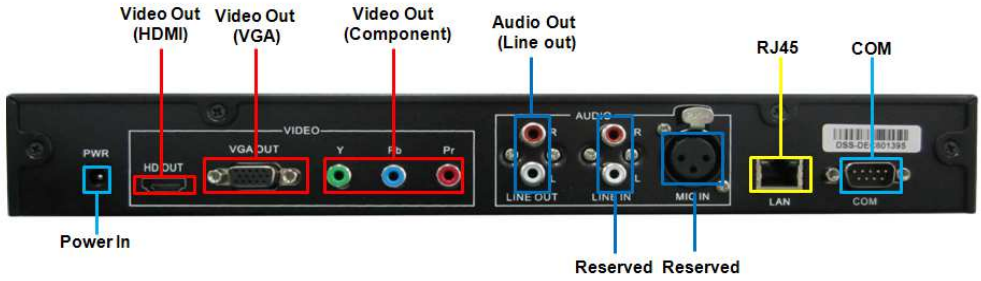
2 Installation and Configuration

2.1 Product View



The above figure shows all ports and connection methods of the decoder. Ports are selectively to be connected based on requirements while installation (but Power, LAN, LIN OUT and HDMI/VGA/YPbPr must be connected).

2.2 Decoder Configuration Instruction

2.2.1 Button function introduction of the remote controller

The decoder can do all the operations of receiving live streaming, play on demand and parameter setting, with remote controller, as shown in the following figure.

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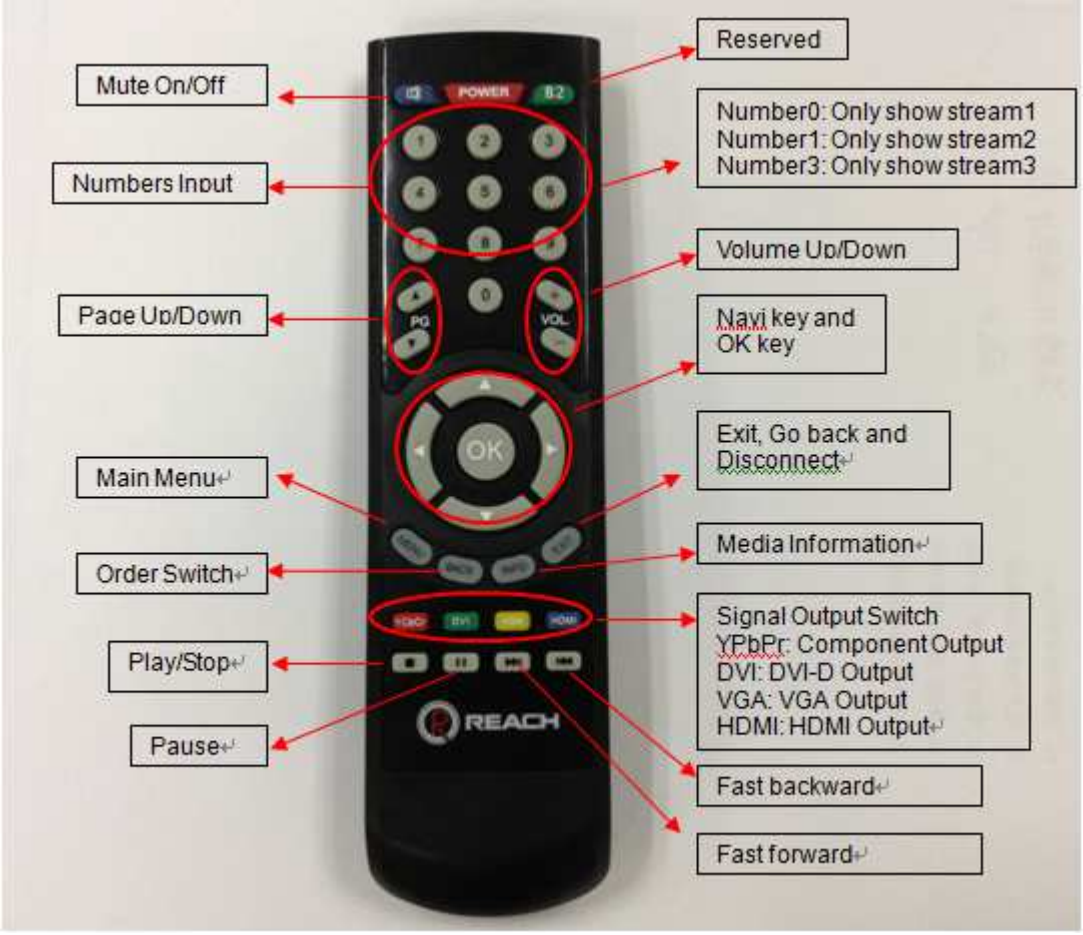

2.2.2 Network parameter setting

2.2.2.1 How to set the network address parameter

The leave-factory default IP address of the decoder is random, and you can get it from the rolling information on the front LCD panel of the equipment. To facilitate the explanation, assume that the decoder IP address is 192.168.1.100, and the subnet mask is 255.255.255.0.

To change the network address parameter of the decoder, enter the decoder menu interface, and select the “System setting” function menu by the remote controller's [Left] and [Right] navigation buttons, then press [OK], as shown in the following figure.

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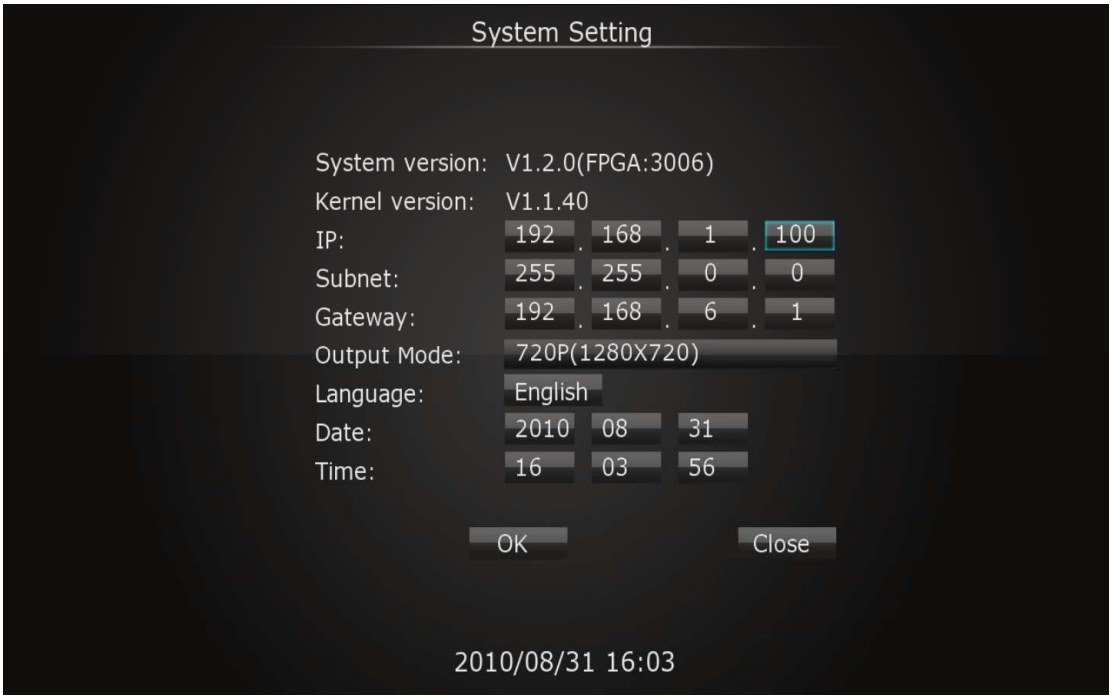

After saving the changed network address parameter, IP address will be effective, and no need to restart the decoder. You can check whether the address parameter is changed successfully in the front LCD panel of decoder.

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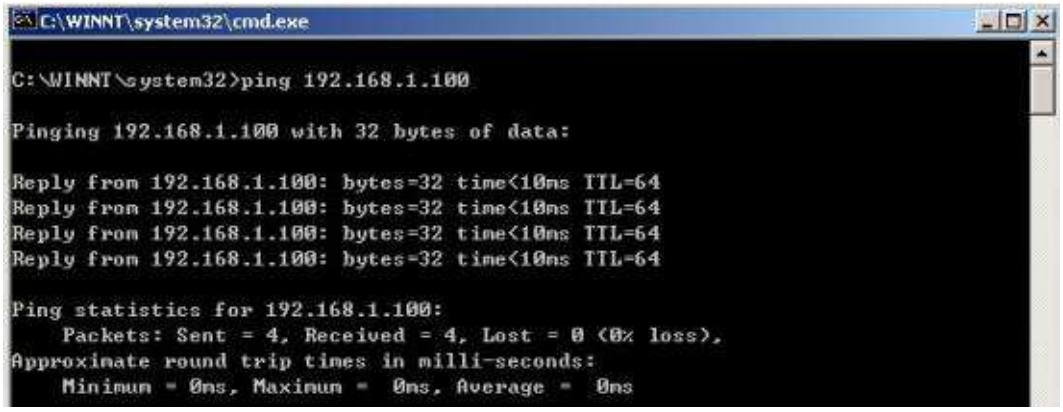
2.2.2.2 Test whether the decoder starts normally.

Change your computer IP address to be in the same network segment and have the same subnet mask as the decoder, such as 192.168.1.110 255.255.255.0.

Open the command line window: Click Start→Run→Command to open the command line window, and enter <ping 192.168.1.100> in the command line window.


C:\WINNT\system32\cmd.exe
C:\WINNT\system32>ping 192.168.1.100
Pinging 192.168.1.100 with 32 bytes of data:
Reply from 192.168.1.100: bytes=32 time<10ms TTL=64
Reply from 192.168.1.100: bytes=32 time<10ms TTL=64
Reply from 192.168.1.100: bytes=32 time<10ms TTL=64
Reply from 192.168.1.100: bytes=32 time<10ms TTL=64
Ping statistics for 192.168.1.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

2.2.2.3 Live Streaming

It is mainly used to receive the real time live streaming of the multimedia recording & streaming server. The live streaming interface is as shown in the following figure:

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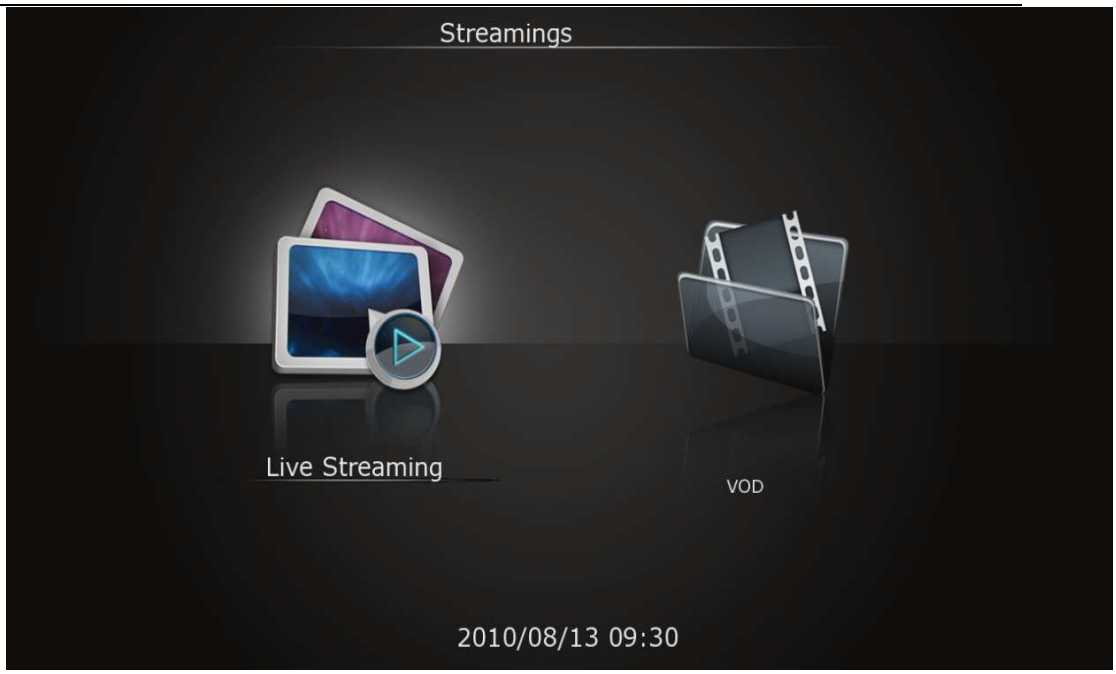

There are two ways of receiving the real time live streaming: unicast and multicast, which can be recognized automatically by the input IP and port/channel, as shown in the following figure:

Name：To display name of the server for receiving unicast and multicast.

IP Address：To display IP address of server for receiving unicast and

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multicast.

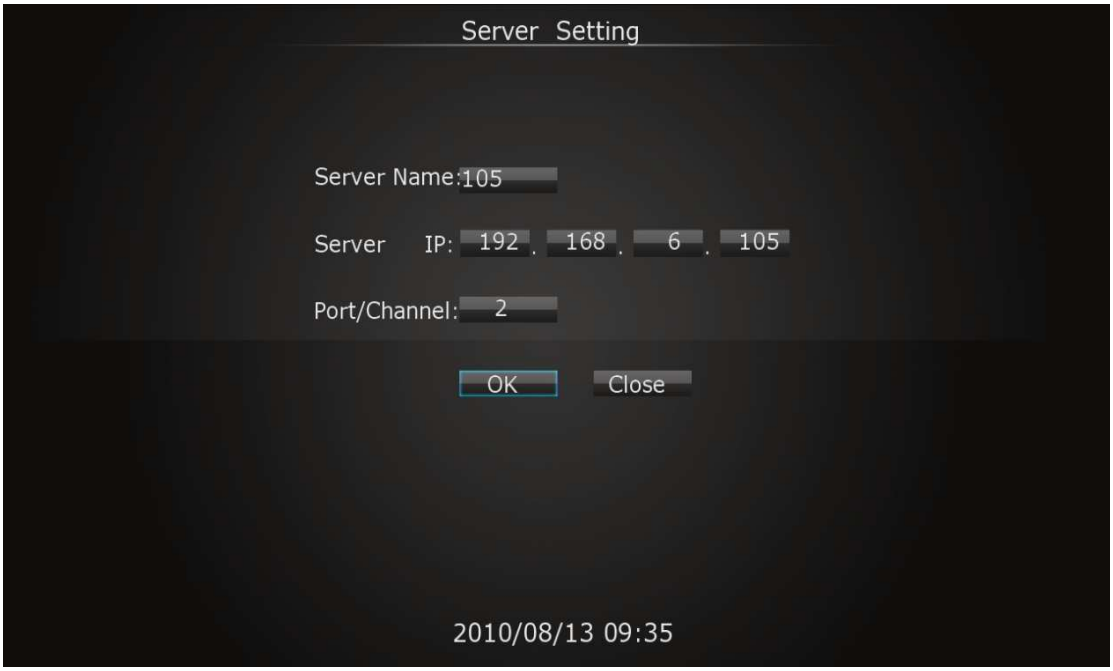
Channel: To display channel for receiving unicast.

Port: To display port for receiving multicast

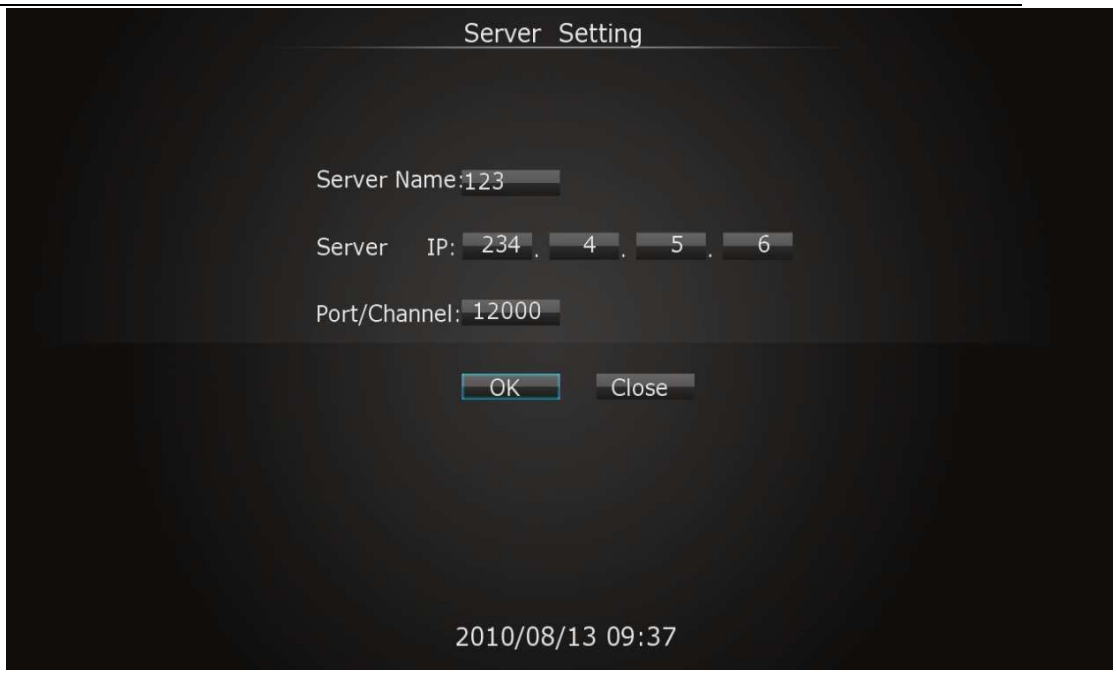
+: Add new server.

-: Delete server.OK: Enter the media receiver interface after selecting server.

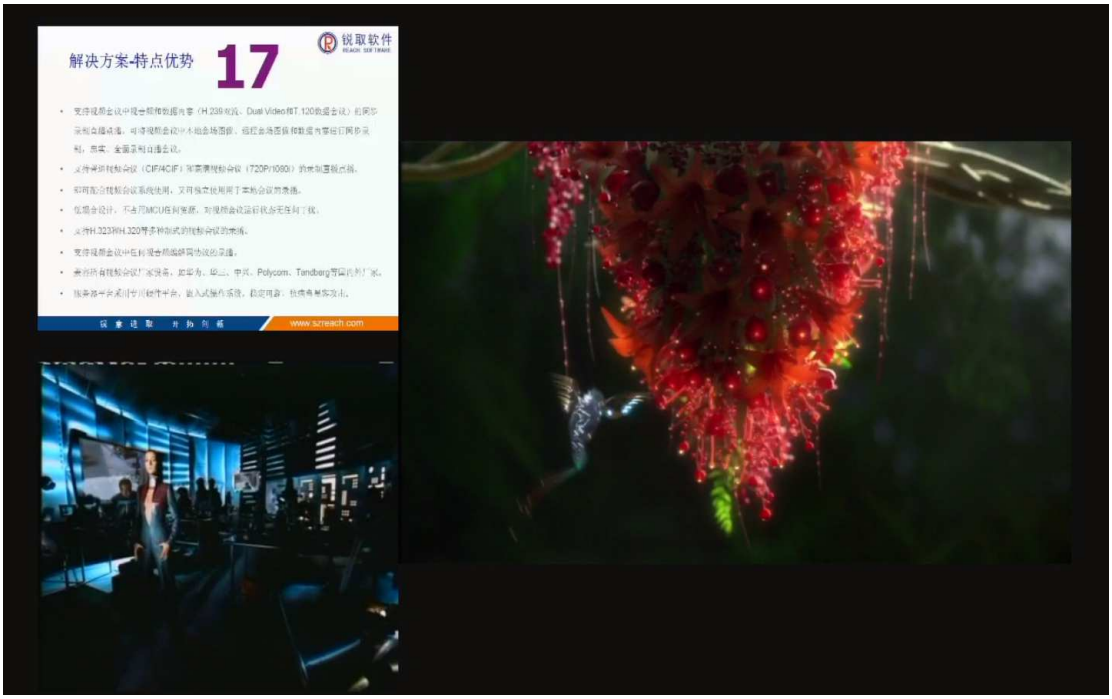
The unicast receiving configuration is as shown in the following figure:



The multicast receiving configuration is as shown in the following figure:



The live streaming picture is as shown in the following figure



By pressing [INFO] button on the remote controller, you can view the current media frame rate, bite rate, audio sample rate, audio bandwidth and video resolution while receiving media. The corresponding figure is as below:

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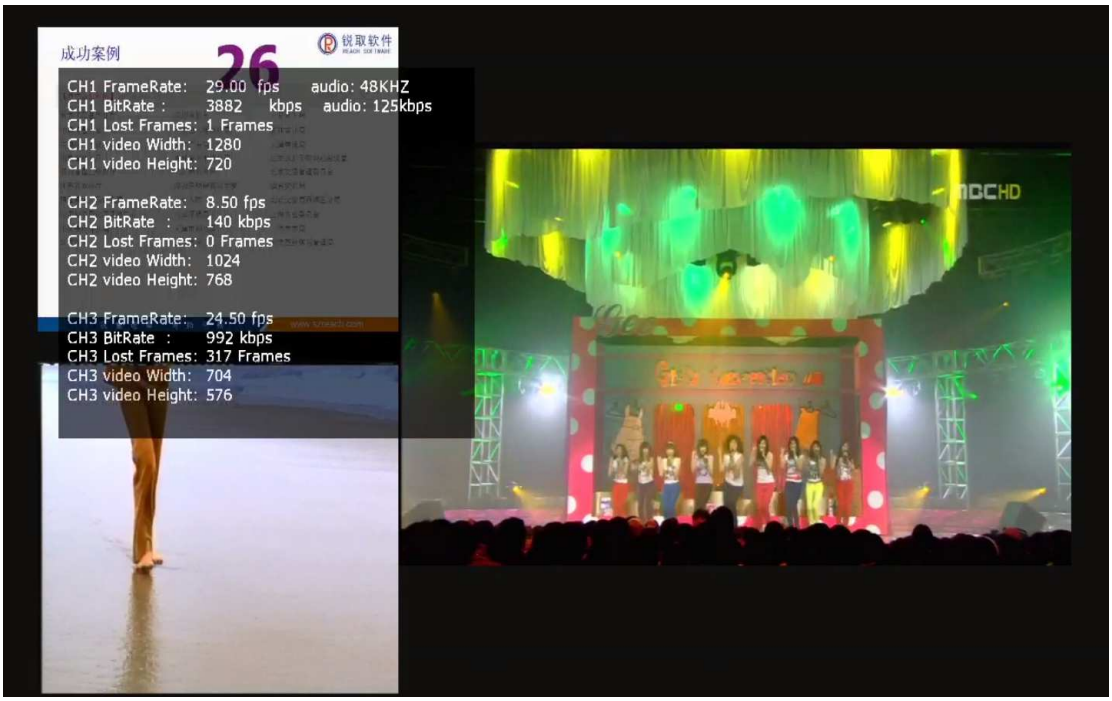
成功案例
26
CH1 FrameRate: 29.00 fps audio: 48KHZ
CH1 BitRate : 3882 kbps audio: 125kbps
CH1 Lost Frames: 1 Frames
CH1 video Width: 1280
CH1 video Height: 720
CH2 FrameRate: 8.50 fps
CH2 BitRate : 140 kbps
CH2 Lost Frames: 0 Frames
CH2 video Width: 1024
CH2 video Height: 768
CH3 FrameRate: 24.50 fps
CH3 BitRate : 992 kbps
CH3 Lost Frames: 317 Frames
CH3 video Width: 704
CH3 video Height: 576

Furthermore, display order can be changed by pressing [SHIFT] button on the remote controller.

2.2.3 VOD

It is used to play on demand the files that have been recorded by the multimedia recording & streaming server, the VOD interface is as shown in the following figure:

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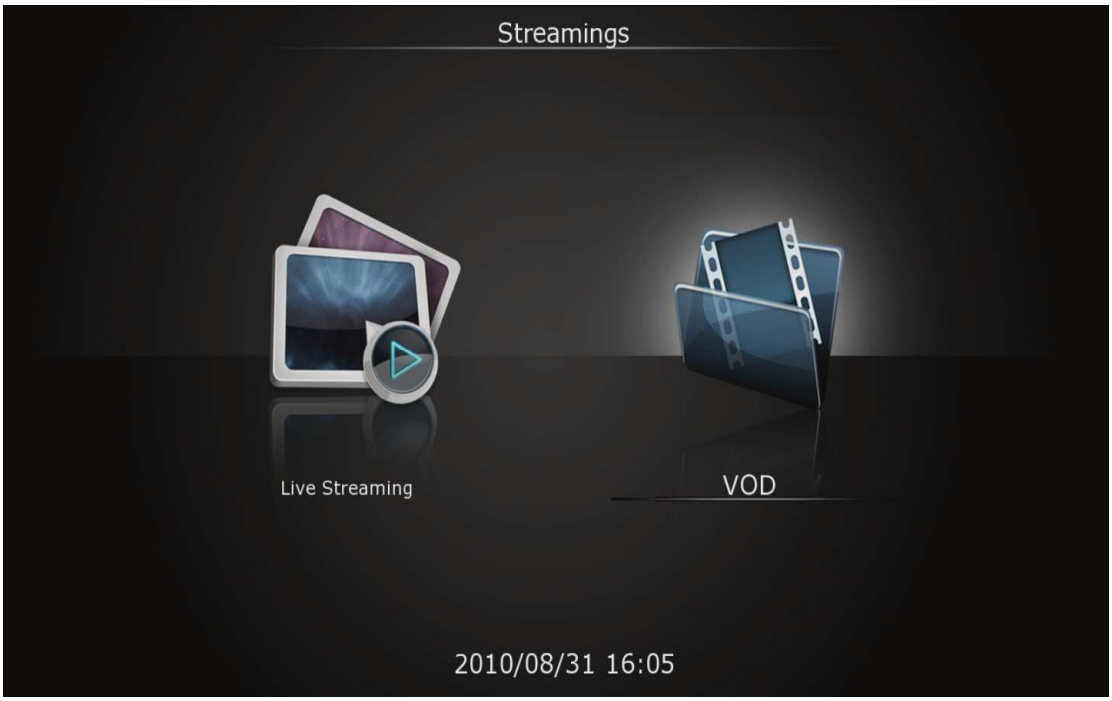

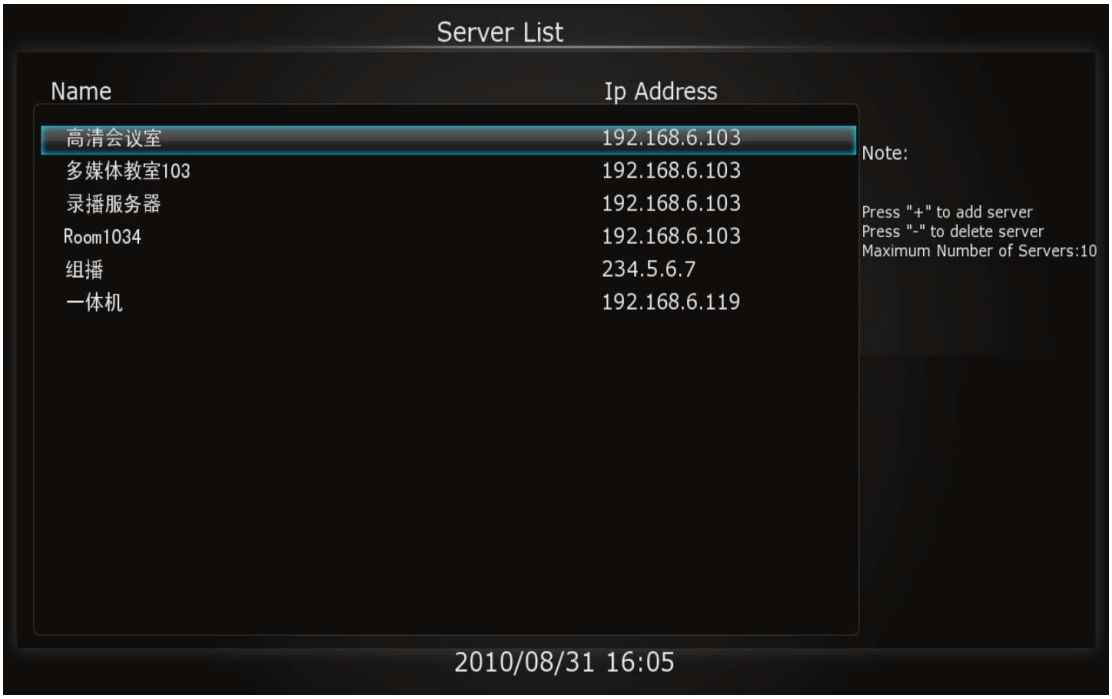

Name: To display name of the VOD server

IP Address: To display IP address of the VOD Server

+: Add new VOD server

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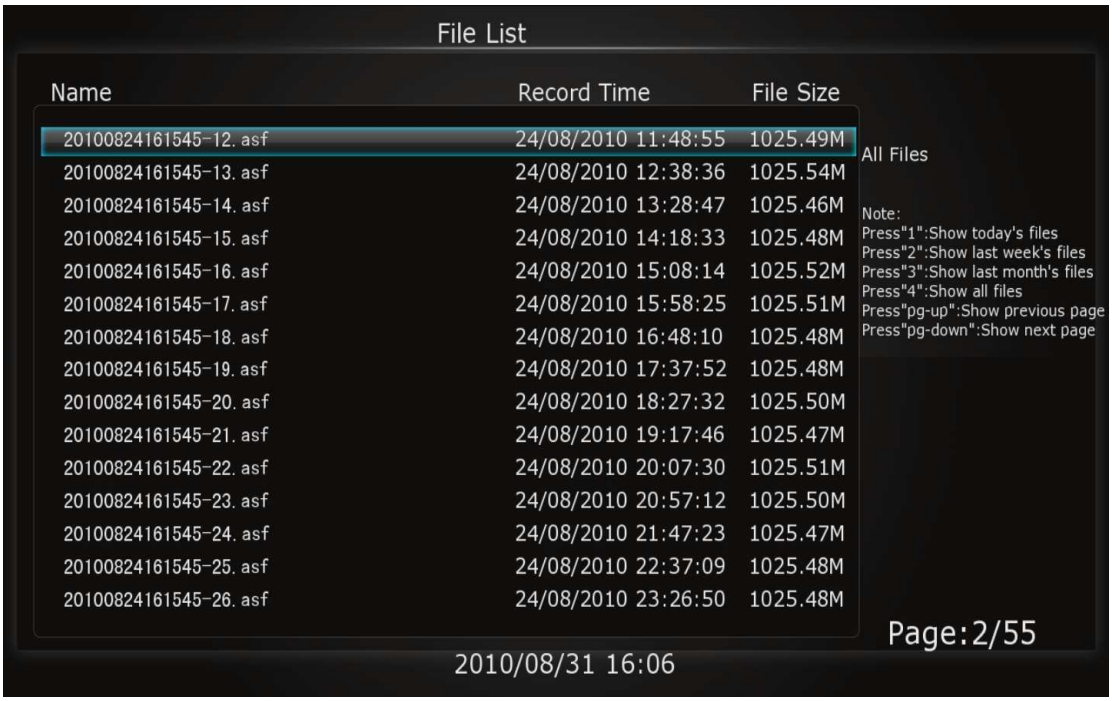
-: Delete VOD server.

OK: After Selecting the VOD server, press it to enter the VOD interface.

The following interface is as below



To show different files by pressing the number buttons [1]~~[4], and turn the file pages by pressing the [Up] and [Down] PG buttons on the remote controller. Choose any file and press [OK] to play. You can press the buttons [Fast Forward], [Backward], [Pause] and [Play] to control the playing progress.

If you need to cycling play on the demand file, press button [8] to switch to the cycling play mode.

If you need to exit playing on demand file, press [EXIT] button, then you will be back to the VOD file list.

The video on demand previewing mode is as below:

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2.2.4 System Setting

It is used to set the network parameter, Output mode, language, date and time of the decoder.

Select “System Setting” in the main menu interface and press [OK] to enter into the setting interface. In the system setting, we can view the current system’s version information, and set the network parameter, Output mode, language, date and time, etc. The system setting is shown in the following figure:

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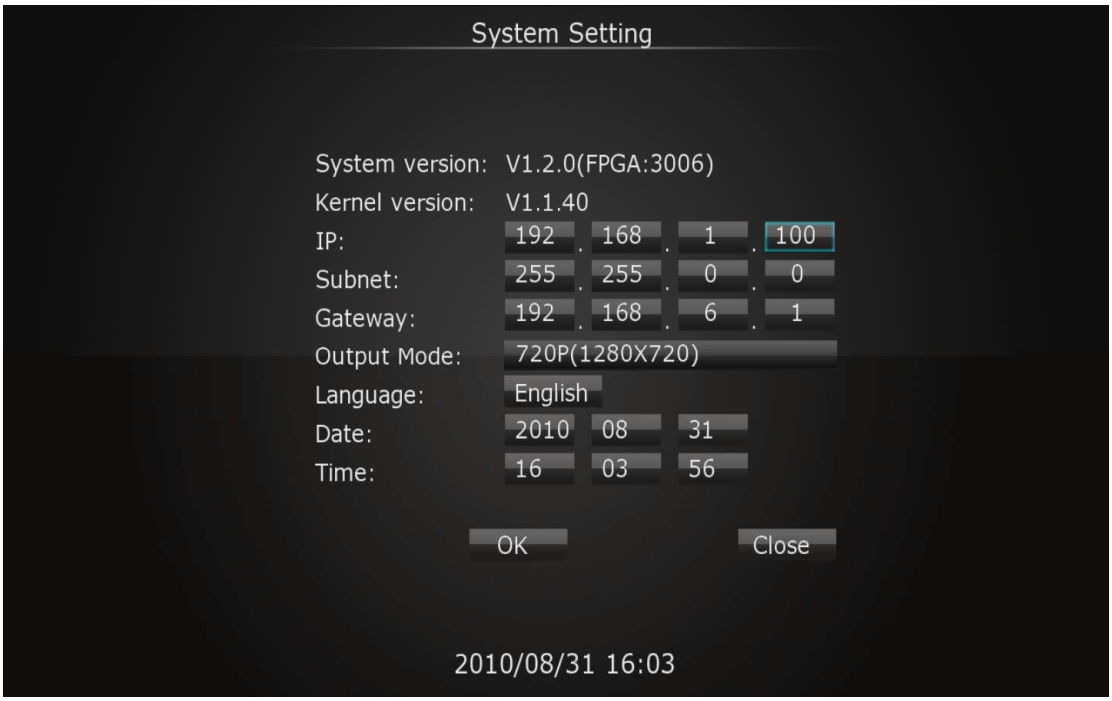

Network Parameter: Set the IP address, subnet and gateway of the decoder. The settings will be effective, and no need to restart the decoder.

Output Mode: Support four output modes of 720P, 1080i, XGA and SXGA.

Language: Support Chinese version and English version.

Date and Time: Set the date and time of the decoder.

OK: Save the revised parameter setting and exit the interface.

Close: Cancel the current changing and return to the last interface.

2.2.5 Introduction of the Web interface

The decoder is embedded with WEB server. All the operations are completed through the browser (Internet Explorer), which is very easy and convenient. The functions in the Web interface mainly include the operations of system information, system configuration, servers list,

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restart and exit.

2.2.5.1 Web logon

After 192.168.1.100 is entered in the browser address field, the logon page in the following figure will appear.

User: admin (factory default, for administrator, can not be

changed)

Password: admin (factory default, can be changed after login)

Click [Login] button to enter the decoder management configuration page.

2.2.5.2 System Information

It mainly displays the system information, such as equipment serial No, equipment type, core version, system version , web version, FPGA version and IP address, as shown in the following figure:

2.2.5.3 Configurate

System configuration mainly includes language, password modification, network setting, mode setting and system upgrade, etc., as shown in the following figure:

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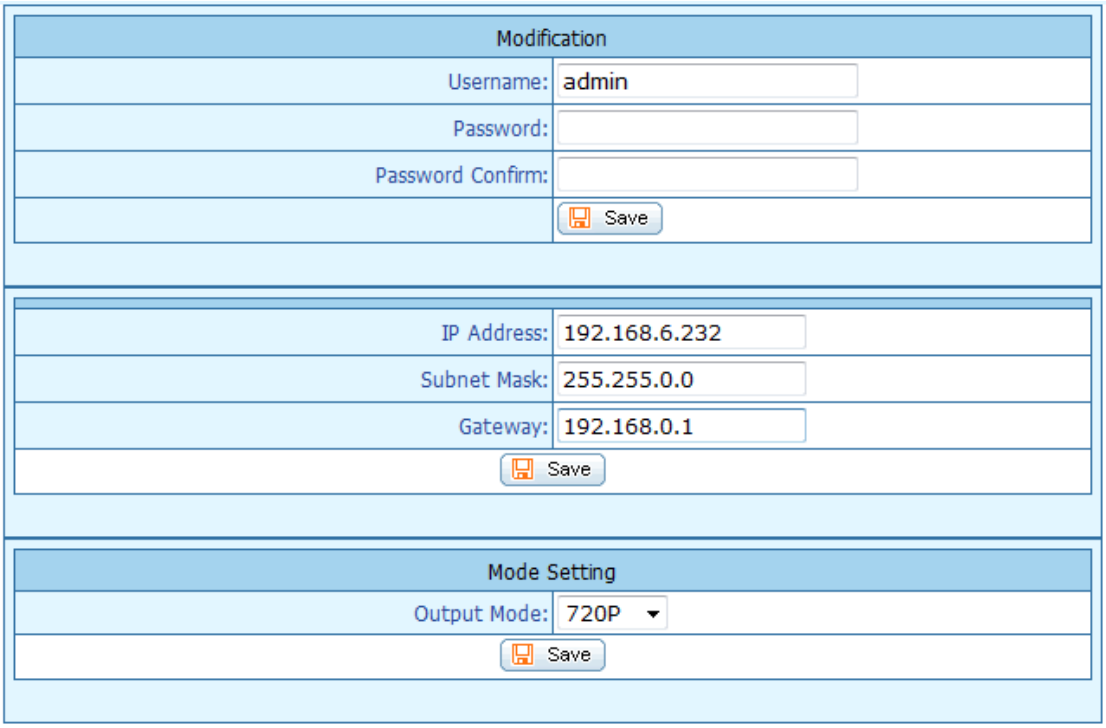

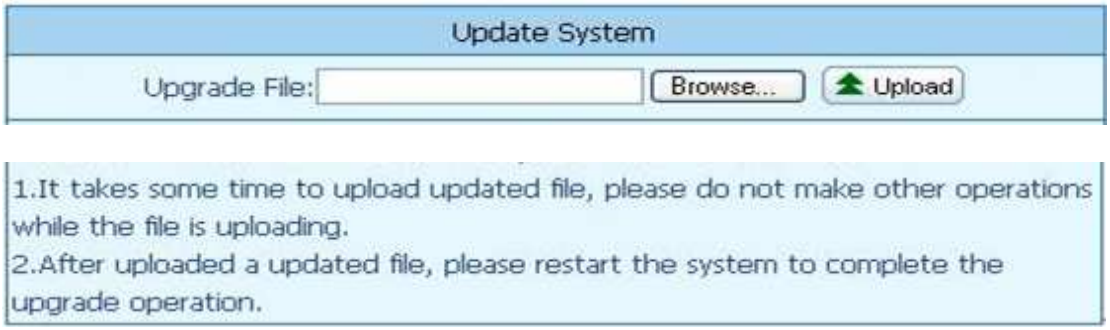
Update System
Upgrade File:
Browse...
Upload
1.It takes some time to upload updated file, please do not make other operations while the file is uploading.
2.After uploaded a updated file, please restart the system to complete the upgrade operation.

Modification: To modify the admin logon password. Enter the modified logon password in [Password] and [Password Confirm], then press “Save” to finish the modification.

Network setting: To change the network IP address of the decoder. Enter the modified IP address, subnet mask and default gateway, then press “Save”.

Note: After changing the network address, it will take effect after the decoder restarts.

Mode Setting: To set the decoder's output modes, which include the

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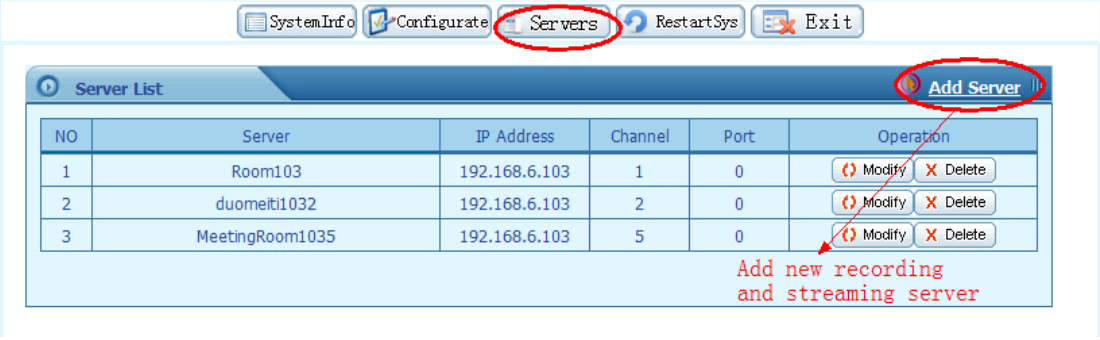
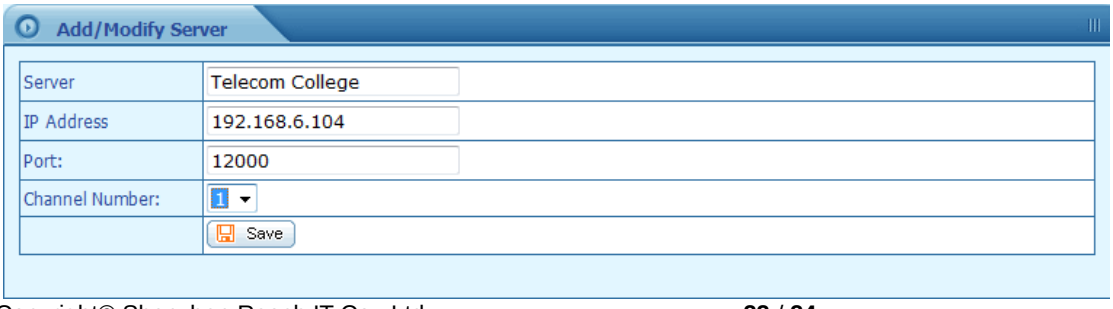
720P, 1080I , XGA and SXGA modes.

Update System: If the internal version of the decoder needs to be upgraded, click [Browse] button to select the corresponding upgrade package stored in the local disk (the upgrade should comply with the order of upgrade documents), and then click [Upload] button to upgrade. It may take about three minutes to complete upgrade, and during this period of time, it is recommended not to conduct any other operations. After finishing the upgrade, you need to restart manually to complete the system upgrade.

2.2.5.4 Servers

It is mainly used to add the remote server. After adding the server, you can directly select the added server and corresponding port number/channel number from the receiving media function in the remote controller end interface, to receive unicast, multicast and VOD, as shown in the following figure:





Server: To edit the added remote server's name.

IP Address: To enter and edit the server's IP address.

Port: To enter the multicast port when receiving multicast.

Channel Number: To enter the channel number of receiving unicast.

Save: Save the entered server information and finish the addition.

2.2.5.5 Restart System

It is mainly used to remotely restart the decoder through network, as shown in the following figure:

3.2.6.6 Exit

To exit the logged on Web management interface.

Microsoft Internet Explorer
The Web page you are viewing is trying to close the window.
Do you want to close this window?
Yes
No

Click “Yes” to exit and close the WEB page; click “No” to cancel the exit operation.

3 Trouble Shooting

- **Unable to start up**

Please try the following operations:

✓ Make sure that there is power supply for the power socket.
✓ Connect the power cables properly.
✓ Turn on the power switch of the product.

- **The computer could not log on the Web interface**

✓ Make sure that the computer and this product are connected in the same interworking network.
✓ Make sure that the network parameters (such as IP address) of the computer and this product have been set according to the requirements of the network administrator.
✓ Use the network tool and software, e.g. ping command, to test the network connection between the computer and this product.

If you still could not log on the web interface, please contact the network administrator.

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